

CLAIMS:

We claim:

- 5 1. A coating composition comprising:
- A) at least one low molecular weight reactive compound with a
 molecular weight (M_n) of 300-1,500 g/mol with at least one
 group selected from the group consisting of secondary amino
 group, tertiary amino group and a mixture thereof and at least
10 two hydroxyl groups per molecule, which compound is
 obtained by reacting
- A1) at least one hydroxyalkyl ester of an olefinically
 unsaturated carboxylic acid with 2-12 C atoms in the
 hydroxyalkyl residue with
- 15 A2) at least one lactone and with
- A3) at least one hydroxy-functional amine having 2-10
 carbon atoms per molecule and where the amino
 group is selected from the group consisting of primary
 amines, secondary amines and mixtures thereof and
20 the hydroxy-functional amine is selected from the
 group consisting of hydroxy functional alkyl amines,
 hydroxy-functional cyclo alkylamines, hydroxy-
 functional alkoxyamines and any mixtures thereof;
- B) at least one cross-linking agent with functional groups
25 reactive towards active hydrogen and optionally,
- C) at least one binder with functional groups containing active
 hydrogen.
2. A coating composition according to claim 1, containing 60-90 wt-%
 of component A) and 10-40 wt-% of component C), wherein the
30 weight percentages relate to solids content and the proportions of
 component A) and component C) add up to 100 wt-%.

3. A coating composition according to claim 1, containing component C selected from the group consisting of hydroxy-functional poly(meth)acrylates, polyesters, polyurethanes and any mixture thereof.
- 5 4. A coating composition according to claim 3 wherein component C comprises hydroxy-functional poly(meth)acrylates.
5. A coating composition according to claim 1, wherein component B comprise polyisocyanates with free isocyanate groups.
6. A coating composition according to claim 1, containing compounds
10 selected from the group consisting of pigments, extenders and mixtures thereof.
7. A coating composition according to claim 1, wherein component A1 comprise hydroxyalkyl esters of (meth)acrylic acid.
8. A coating composition according to claim 1, wherein component A2
15 comprise epsilon-caprolactone.
9. A coating composition according to claim 1, wherein component A3 comprises hydroxyalkylmonoamines with a primary amino group and one or two hydroxyl groups.
10. A coating composition according to claim 1, wherein the amino
20 groups of component A) are partially or completely neutralized with hydroxycarboxylic acids.
11. A process for the multilayer coating of a substrate to form a multilayer structure thereon comprising applying a coating composition according to claim 1 to form at least one layer of the
25 multilayer structure.
12. A process according to claim 11, wherein the substrate comprises vehicles or vehicle parts.